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      Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
      Thereof

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<150> US
<151> 2000-01-04

<150> US 60/115,125
<151> 1999-01-06

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<170> PatentIn version 3.2

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25 gaaaaanttt tccggggggc ccacccggga agggntnccg gggaaggg   168

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30 <212> DNA
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cccacatttc catttttaat atatactgtg ctttacaaat attataatat gttttaaaat   180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc   240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa   300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga   360
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152

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15 aaaggggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc cccttttttcc   180

aattcccaaa accaatttcc aaaaggnaaa ccaaccnttc ccaaaatggg aaagg   235

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45 caaattgggg ggnaaaccaa atttaaggggg ggaaggggggg gncccccccg ggaaaggccc 180

aaggggggaa aattttttccg ggggtggggtn gggggaacca atttaaggggg ggggcccccg   240

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15

ctgtacttga actctaaaac tgttggagaa actcagtgct taccccaaca gattcatttc   180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

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attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt   300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg   180
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gttctgggna cgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa   240

tg   242

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       tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt   120

15   gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct   180

       c   181

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tncccncccn nttnanacna aanntngcac tcttggntgc   100

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ataatggaag atagctntga ggatnaacnc tggttnaggg   100

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15

aaggggggtg gggaagagcc aaatttcttt gggaaanaac gccccttgg ggaaaanaag   180

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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg   180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct   240

agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna   300

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165

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga   420

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gagaacccncg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta   180

gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaagggggtt aatattcctc   240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag   300

5   tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa   360

agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg   420

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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttcntncccc   180
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agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc   240

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5   actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt   180

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc   180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca   240
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gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga   300

ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt   540
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tgntagatga nnngntgctc nccccttgngg ctnacaaatt ccancaccnt tggtggcngc   600

agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

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tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa   180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca   240

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gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa   360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt   420

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ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg   180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct   240

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aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat   180

taattgggag tgggggctga aacaattcg   209

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220

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg   180

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cccgggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa   180

20   aaccggccgg ggttttata caaactggga acccactttt gaaaaatttt ggccttttga   240

tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt   300

aagtattccc ccccggggggg cctttacaaa aagggcggtt ttaaaagctt ttgggccccc   360
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ctagggaatt gttttaacac ctaaaaaccc ctgcttccct taaaggggcg ttctttaatt   420

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tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca   180

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt   180

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tttgttaaaa ttgatatatt gatatataaa acttcttttg ccagtgttgg tggcacacgc   360

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gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca   180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag   240

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tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180

40   aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

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agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa   180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa   240
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tgtaatggaa tagactcgaa tggaatggaa cgaaattt   278

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attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc   180

ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc   240
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<211> 179
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ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt   180

agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg   240
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gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata   300

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tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg   180

15   agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat   240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat   300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga   360
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tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca   420

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15 ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc   120

cacag   125

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aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga   180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa   240

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ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga   360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga   420
45
tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga   473

228

<210> 73
<211> 500
<212> DNA
<213> Human

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<223> n is a, c, g, or t

<220>
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<222> (233)..(233)
<223> n is a, c, g, or t

<400> 73
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat   120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa   180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga   240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga   300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga   360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat   420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg   480

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<210> 74
<211> 299
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<213> Human

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<223> n is a, c, g, or t

<400> 74
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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga   120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180
20

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg   299

25
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<211> 155
<212> DNA
<213> Human
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<400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga   120
35
tgagatgaca tgaaataatg aaacgaaatt gaaat   155

<210> 76
40 <211> 367
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180

45
tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

<210> 77
<211> 257
<212> DNA
<213> Human

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<223> n is a, c, g, or t

<400> 77
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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta   120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc acttttttct   240

aggtcctttc ttagtct   257

<210> 78
<211> 373
<212> DNA
<213> Human

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232

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<223> n is a, c, g, or t

25

<400> 78

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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt   120

30

tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa   180

tttccgttaa atagccgtta aatgtttta cccatttcat attggatacc ttaaattata   240

35

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc   300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg   360

gcccggggtt ttt   373

40

<210> 79
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45

234

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25   <223> n is a, c, g, or t

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<400> 79
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35   ccttgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca   120

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40   <210> 80
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<212> DNA
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45
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<223> n is a, c, g, or t

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<222> (88)..(88)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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ggccaggcct tcccttaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg   120

ggaaaanaaa tccttttaa anggaantcc aagggaagga ncctgnncaa nacttccccn   180

30

ccaataaaaa aaaccntttt ggaaangggg aaa   213

<210> 81
35 <211> 443
<212> DNA
<213> Human

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<223> n is a, c, g, or t

45 <220>
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<223> n is a, c, g, or t

<220>
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<222> (39)..(39)
<223> n is a, c, g, or t

<400> 81

gaaatgagat gaaaccatga gnatgaaatg aannaatgnc atgcaaatga tgagatgaaa   60

tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat   120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg   180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat   240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa   300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa   360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa   420

atgaaatgaa atgagattaa atg   443

<210> 82
<211> 442
<212> DNA
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10   <223> n is a, c, g, or t

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<222> (82)..(83)
15   <223> n is a, c, g, or t

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<222> (121)..(121)
20   <223> n is a, c, g, or t

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25   gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata   120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag   180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata   240
30

taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat   300

aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg   360

35   catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg   420

taggaaagca tttctttttt tt   442

40   <210> 83
<211> 135
<212> DNA
<213> Human

45

<220>

239

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<223> n is a, c, g, or t

5   <220>
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<223> n is a, c, g, or t

10   <400> 83
gtctaacnta aaaagtaaag aaagtaaagt aaaggnttga aggaaggaag gaaggaagga   60

aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga   120

15   aggaaggaag gaagg   135

<210> 84
<211> 346
20   <212> DNA
<213> Human

<220>
25   <221> misc_feature
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<223> n is a, c, g, or t

<400> 84
30   ggaggaggaa gagtgatgag ttctctaatn acttggttgg attagcctta gagttatcgg   60

gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag   120

aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag   180
35

agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc   240

aaccccagct agacagaact ttgtagattt tgggggggtttt aaaaggcctc aagcaaattc   300

40   taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact   346

<210> 85
<211> 100
45   <212> DNA
<213> Human

<400> 85
acaaaaagcc cctttaaact tgggcccgct cgaggtcgtt tcgactgggc cgagacttcc   60

5   gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa   100

<210> 86
<211> 201
10   <212> DNA
<213> Human

<400> 86
ttcataacat cgtcattttg ggttatgcga aatacaaatt taaatctttg tgaaatgaaa   60
15
gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

20   atgtaacagt gtggggtttc a   201

<210> 87
<211> 531
25   <212> DNA
<213> Human

<400> 87
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aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa   120

tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

35   ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa   240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360
40
ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

45   aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

241

<210> 88
<211> 530
<212> DNA
5   <213> Human

<400> 88
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10   cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

acagccaaac cggtccgccc aaggcctccg tcgttttata atatattccg tttacgtata   180

aggaacgaac cccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240
15

gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

20   agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtcccctt tattctcccg gacgccccctt ttaaccactt cttcctatct   480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt   530
25

<210> 89
<211> 332
<212> DNA
30   <213> Human

<220>
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40   <222> (47)..(47)
<223> n is a, c, g, or t

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45   <222> (108)..(108)
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<400> 89
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40   ttccaccggc ctggttttgg tttttccata attaattaac caggggggncc anttaaaaaa   120

aattaaggna aggnttaaaa aatttaacca angggggggtt taaagggntt ttttttttta   180

aaaaaaaagg ttaaancccc ccctttttttt ttgggttggg gtgggaaaat tttgggaanc   240
45
cttaacccc gggtttttgg gtttttttgg ccaaaaccccc ccggaaaaaa attaaaaaaa   300

243

ggaccggttt ccattttaat gggtattggg aa   332

5   <210> 90
    <211> 185
    <212> DNA
    <213> Human

10 <400> 90
    actgctataa tgcaggggaa catgttctca gggtcatcct gaggggttgt gtcatggggc   60

    cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180

    ctcct   185

20 <210> 91
    <211> 365
    <212> DNA
    <213> Human

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    <223> n is a, c, g, or t
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    <222> (338)..(339)
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    <223> n is a, c, g, or t
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    ctaggggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120
45
    tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

244

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

gggctgcttt ttgtcactct ggcatnagag aattgtgnng aaantttaac ttttgtaagc   360

ttgta   365

<210> 92
<211> 113
<212> DNA
<213> Human

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<223> n is a, c, g, or t

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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg   113

<210> 93
<211> 210
<212> DNA
<213> Human

<400> 93
gttttaggga aatttgccag ttttatgttt taatattttt ggaaggaaaa ctgaaaggta   60

atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt   120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa   180

cttcatagaa ccccatctct acaccaaaaa   210

245

<210> 94
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5   <213> Human

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<223> n is a, c, g, or t

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15   <222> (25)..(25)
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25   <222> (44)..(44)
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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg   180
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canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg   300

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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa   180
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tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat   240

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ntaaatgnga tgaattaatg atgagatgaa atgntgaatg ccggggtgnn tgagatgaat   720

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gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa   180

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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga   180
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aatgacctaa tgaaatgaaa aaatgaaatg aaataatgaa atgaggtgaa attaaatgag   240

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35   tgaatgatga gatgaaatga tgagatgaga tctaatgatg agaggagatg atgagatgaa   360

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15 <221> misc_feature
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tccccttgaa nntctctaaa ccttaacttt ctggccnttt tgtttcagan atgcctaacc   120

ctcaggggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt   180

cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc   240

tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta   300

tggcttggaa atagtttagc tgaacattat gctttaatat tttactggcc attgcagcac   360

aggtttagaa atttatgttc ggctttttaa agtttta   397

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<211> 132
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<213> Human

<220>
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ngaggaagac cc   132

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ggcacttaat tttataattg atatatataa taaaaaattc aatgcagata ttgatataat   120

aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt   180

aacctataac ttattaagta aagtgccaga atggttcttt gacagtatta aaattaaaga   240

267

aaacag   246

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5   <211> 18
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     RT-PCR analysis

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30

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35
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45   <220>
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analysis

<220>
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25

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